

## Faceting 121 - Lesson 1A

Beave

by Arya Akhavan (November 2012)

Angles for R.I. = 1.540

17 + 8 girdles = 25 facets

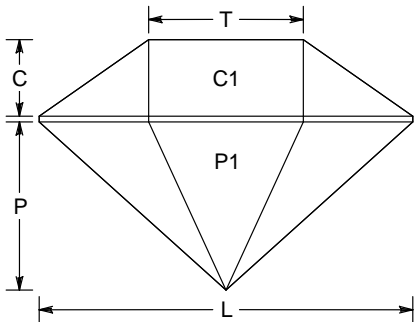
8-fold, mirror-image symmetry

96 index

$L/W = 1.000$   $T/W = 0.414$   $U/W = 0.414$

$P/W = 0.450$   $C/W = 0.205$

$Vol./W^3 = 0.234$



### PAVILION

P1 42.00° 96-12-24-36-48-60-72-84 Cut to centerpoint.

G1 90.00° 96-12-24-36-48-60-72-84 Set stone size.

### CROWN

C1 35.00° 96-24-48-72

Set girdle width.

C2 44.72° 12-36-60-84

Level girdle.

T 0.00° Table

Meet C1, C2

Our first lesson in faceting theory deals with making patterns more complex and raising the material's RI, to see how the reflection patterns and light return change. We'll change both the complexity and the RI at the same time, to get a more exaggerated effect.

Lesson rules: cut in dark amethyst, trying to match colors with lesson 1B and 1C

C:\PROGRA~2\GemCAD\DESIGN~3\WORKSI~1\4FACET~1.GEM